



PATENT  
37310-000125/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: **Sungho JIN et al.** Conf: **1494**  
Serial No.: **09/338,520** Group: **2879**  
Filed: **June 23, 1999** Examiner: **T. Clove**  
For: **CATHODE WITH IMPROVED WORK FUNCTION AND METHOD  
FOR MAKING THE SAME**

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

November 22, 2002

Sir:

Responsive to the Office Action mailed **August 22, 2002**, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

**IN THE CLAIMS**

Please amend the following claims:

17. (Amended) The thermoionic cathode of claim 1, wherein said buffer is an alloyed buffer.

20. (Amended) The thermoionic cathode of claim 1, wherein said buffer includes at least two of Re, Ta, C, Hf, Tc, Os, and Ru.

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# TRANSMITTAL FORM

*(to be used for all correspondence after initial filing)*

Total Number of Pages in This Submission

Application Number	09/338,520
Filing Date	June 23, 1999
First Named Inventor	Sungho JIN et al.
Group Art Unit	2879
Examiner Name	T. Clove

8

Attorney Docket Number

37310-000125/US

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <ul style="list-style-type: none"> <li><input type="checkbox"/> After Final</li> <li><input type="checkbox"/> Affidavits/declaration(s)</li> </ul> <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <ul style="list-style-type: none"> <li><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53</li> </ul>	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	Attorney Name	Reg. No.
Harness, Dickey & Pierce, P.L.C.	Gary D. Yacura	35,416
Signature	 #46,175	
Date	November 22, 2002	

## CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

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